APPENDIX C

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APPENDIX C DATA PRODUCTS AND FORMATS

C1. ACCESS LOW RATE DATA POST MISSION CUSTOMER DATA PRODUCTS

This appendix describes the ACCESS low rate post mission customer data products and their formats. ACCESS records avionics user data subsets and generates user data products. The final product is an ISO 9660 standard CD of files, with each file containing one data type. The data is stored in the files as binary data in the form of packets, as described in tables 2.13 through 2.18 of the CARS document. Asynchronous (UART) data is stored as formatted data, with an E5 header, even if the user received the data as unformatted real time during the mission. The packets within the files will be in the order in which they are received.

Data files stored to CD can be accessed with any machine that uses the ISO 9660 standard. A hardcopy of the files on the CD will be included with the data product. This listing will include the filenames of each file on the CD in the order that they are stored in the product.

Data files are named as defined below:

TABLE C.1 USER DATA FILES FILENAME

Data Type	Msg Type in Packet	Real-time Filename
Asyncronous (UART)	2	USER#.UAR
Analog	3	USER#.ANA
HH Ancillary	4	USER#.CCG
STATUS	6	USER#.LNK
STATUS	5	USER#.CMD

Note: The symbol # above stands for the customer identification number (CID) on the packets.

TABLE C.2 USER LOW RATE DATA FILES

Data Type	Msg Type in Packet	Real-time Filename	Record Length (bytes)
(Asynchronous UART)	2	USER#$.UAR	max 132, min 11
Customer Analog Data	3	USER#$.ANA	43
HH Ancillary Data Message	4	USER#$.CCG	21
Command Completion Status	5	USER#$CMD	13
Data Link Status	6	USER#$.LNK	12

Note:

represents the customer identification number (CID) on the packet.

$ represents the version of that file (i.e., USER1A.UAR, USER1B.UAR, ...); files are in the order in which they were received.

C2. POST MISSION CUSTOMER DATA PRODUCTS: MEDIUM RATE DATA

This appendix describes the medium rate data post-mission data products and formats generated by ACCESS for each customer. ACCESS records all avionics user medium rate data subsets via the Medium Rate DeMux Unit (MRDU) and generates user data products.

The data is recorded as one binary file that contains a continuous stream of user medium rate data. This data is written to a file in blocks of 10 user frames each, except the last block which may contain less than 10 user frames. Once the file has 215MB of data, a new file is automatically started.

The final data product for the customer is stored on ISO 9660 standard CDs. Data files stored to CD can be accessed with any CD-ROM that uses the ISO 9660 standard. On each CD, there will be multiple files of 215MB or less containing a continuous stream of user data. There will be no headers or trailers. Only customer data received with a correct customer sync and customer ID will be stored to the CD.

There may be separate CDs for real-time data recorded during the mission and for data played back after the mission. The number of CD's will depend on the file sizes.

Table C.3 shows the medium rate data files naming convention.

TABLE C.3 USER MEDIUM RATE DATA FILES

Date Type	Real-time Filename	Playback Filename	File Size
Medium Rate Data	USER#$.MRD	PB#$.MRD	Up to 215 MB

Note:

#	represents the customer identification number (CID) on the packet.
$	represents the version of that file (i.e., USER1A.MRD, USER1B.MRD, ...); files are in the order in which they were received.